

FIG. 1

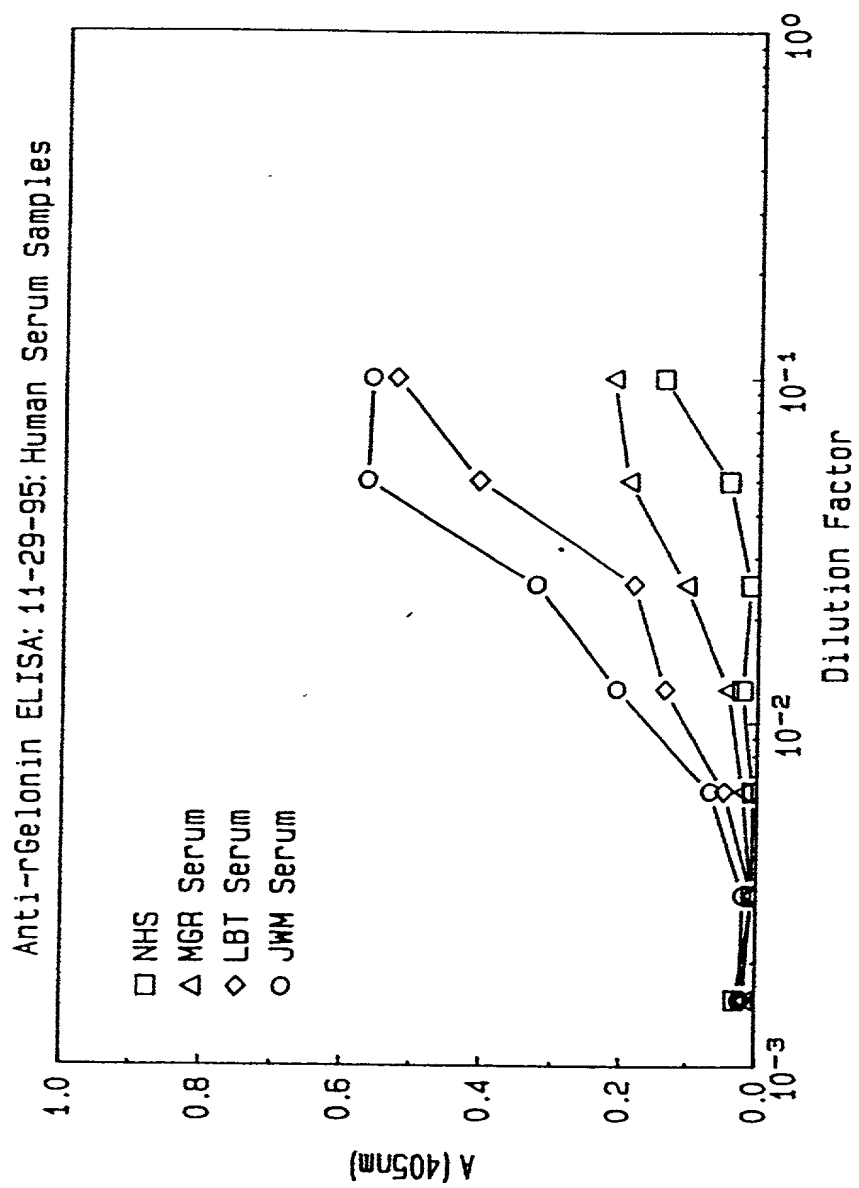


FIG. 2

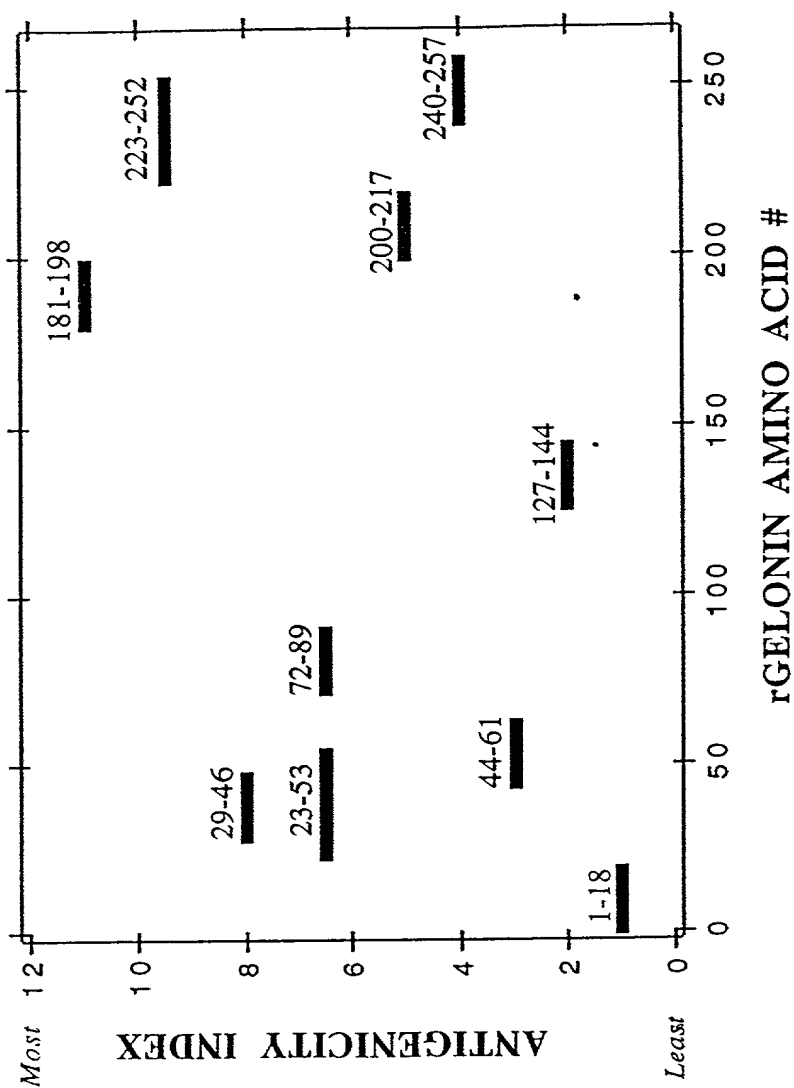


FIG. 3A

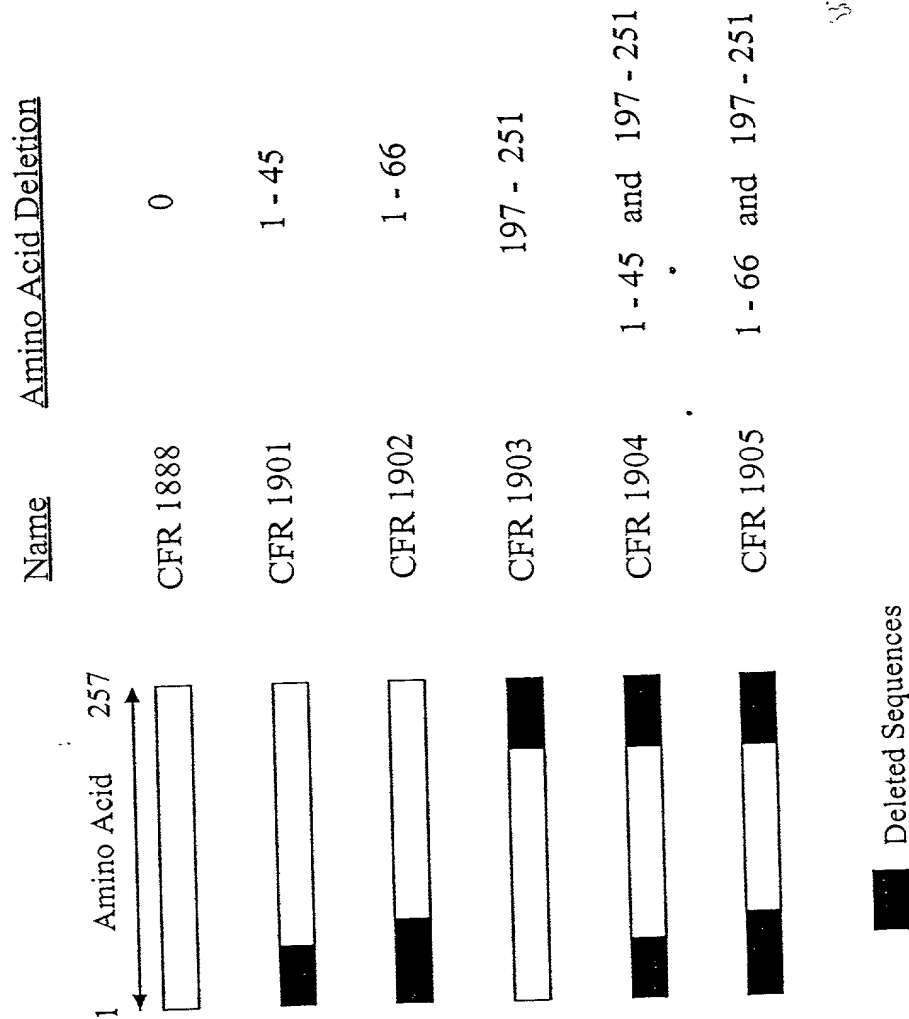
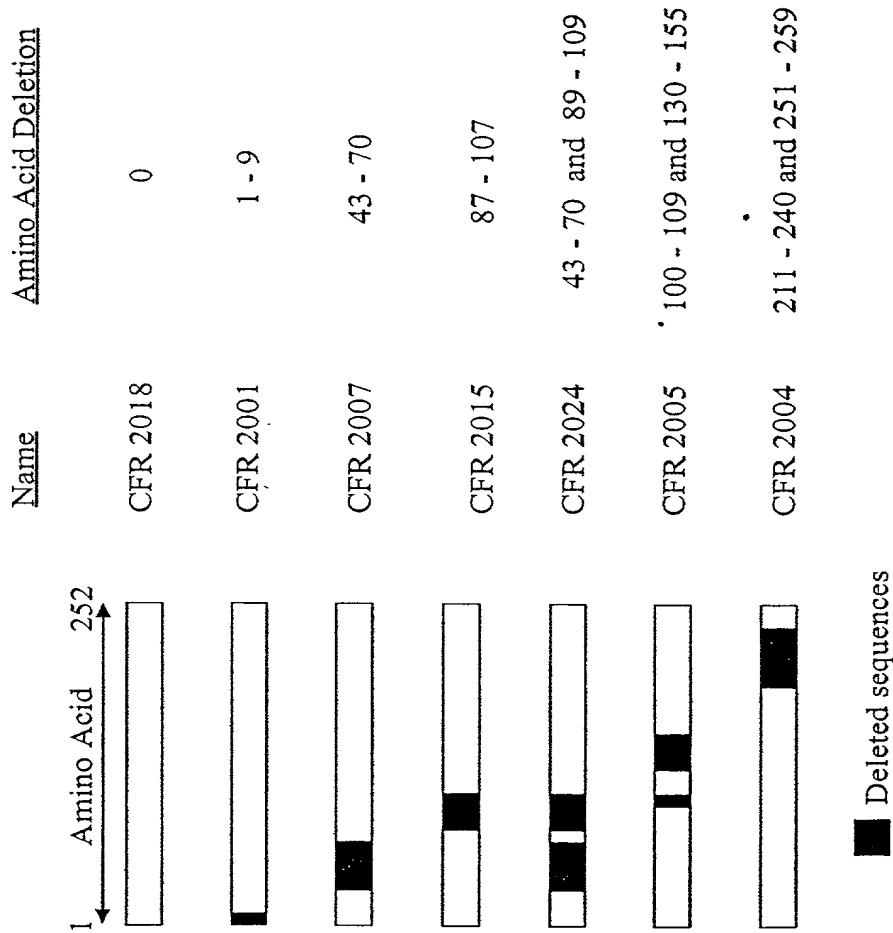


FIG. 3B



Construction of sFvMEL-Gel

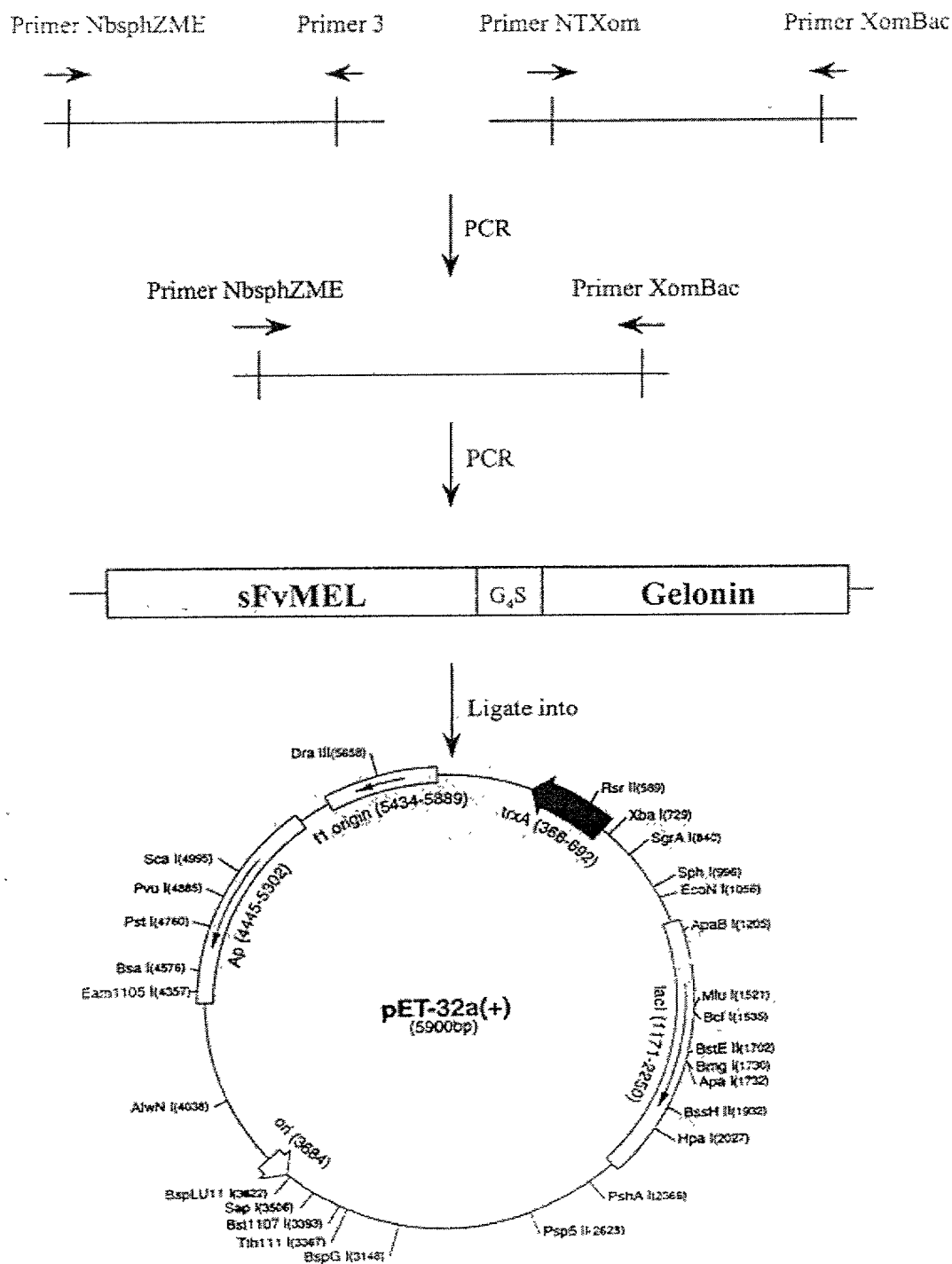


FIG. 4

SCFV-MEL→
 ATG ACG GAC ATT GTG ATG ACC CAG TCT CAA AAA TTC ATG TCC ACA TCA GTA GGA 18
 LCDR1
 GAC AGG GTC AGC GTC ACC **TGC** AAG GCC AGT CAG AAT GTG GAT ACT AAT GTA GCC 36
 TGG TAT CAA CAA AAA CCA GGG CAA TCT CCT GAA CCA CTG CTT TTC **TCG** GCA **TCC** 54
 LCDR2
 TAC CGT TAC ACT GGA GTC CCT GAT CGC TTC ACA GGC AGT GGA TCT GGG ACA GAT 72
 TTC ACT CTC ACC ATC AGC AAT GTG CAG TCT GAA GAC TTG GCA GAG TAT TTC **TGT** 90
 LCDR3
 CAG CAA TAT AAC AGC TAT CCT CTG ACG TTC GGT GGA GGC ACC AAG CTG GAG ATC 108
 218 Linker
 AAA **GGC TCC ACC AGC GGC AGC GGT AAG CCA GGC TCC GGC GAA GGC AGC ACC AAA** 126
 GGC GAA GTG AAG GTT GAG GAG TCT GGA GGA GGC TTG GTG CAA CCT GGA GGA TCC 144
 HCDR1
 ATG AAA CTC TCC **TGT** GTT GTC TCT GGA TTC ACT TTC GGT **AAT TAC TGG ATG AAC** 162
 TGG GTC CGC CAG TCT CCA GAG AAG GGG CTT GAG TGG ATT GCA **GAA ATT AGA TTG** 180
 HCDR2
 AAA **TCC AAT AAT TTT GCA AGA TAT TAT GCG GAG TCT GTG AAA GGG** AGG TTC ACC 198
 ATC TCA AGA GAT GAT TCC AAA AGT AGT GTC TAC CTG CAA ATG ATC AAC CTA AGA 216
 HCDR3
 GCT GAA GAT ACT GGC ATT TAT TAC **TGT** ACC AGT **TAT GGT AAC TAC GTT GGG CAC** 234
 TAT **TTT GAC CAC** TGG GGC CAA GGC ACC ACT CTC ACC GTC TCC TCA GCT AGC **GGT** 252
 G₄S Linker Gelonin→
 GGC **GGT GGC TCC** GGT CTA GAC ACC GTG AGC TTT AGC ACT AAA GGT GCC ACT TAT 270
 ATT ACC TAC GTG AAT TTC TTG AAT GAG CTA CGA GTT AAA TTG AAA CCC GAA GGT 288
 AAC AGC CAT GGA ATC CCA TTG CTG CGC AAA AAA **TGT** GAT GAT CCT GGA AAG **TGT** 306
 TTC GTT TTG GTA GCG CTT TCA AAT GAC AAT GGA CAG TTG GCG GAA ATA GCT ATA 324
 GAT GTT ACA AGT GTT TAT GTG GTG GGC TAT CAA GTA AGA AAC AGA TCT TAC TTC 342
 TTT AAA GAT GCT CCA GAT GCT GCT TAC GAA GGC CTC TTC AAA AAC ACA ATT AAA 360
 ACA AGA CTT CAT TTT GGC GGC AGC TAT CCC TCG CTG GAA GGT GAG AAG GCA TAT 378
 AGA GAG ACA ACA GAC TTG GGC ATT GAA CCA TTA AGG ATT GGC ATC AAG AAA CTT 396
 GAT GAA AAT GCG ATA GAC AAT TAT AAA CCA ACG GAG ATA GCT AGT TCT CTA TTG 414
 GTT GTT ATT CAA ATG GTG TCT GAA GCA GCT CGA TTC ACC TTT ATT GAG AAC CAA 432
 ATT AGA AAT AAC TTT CAA CAG AGA ATT CGC CCG GCG AAT AAT ACA ATC AGC CTT 450
 GAG AAT AAA TGG GGT AAA CTC TCG TTC CAG ATC CGG ACA TCA GGT GCA AAT GGA 468
 ATG TTT TCG GAG GCA GTT GAA TTG GAA CGT GCA AAT GGC AAA AAA TAC TAT GTC 486
 ACC GCA GTT GAT CAA GTA AAA CCC AAA ATA GCA CTC TTG AAG TTC GTC **GAT** AAA 504
 End * *
 GAT CCT AAA TAA TGA 507

FIG. 5

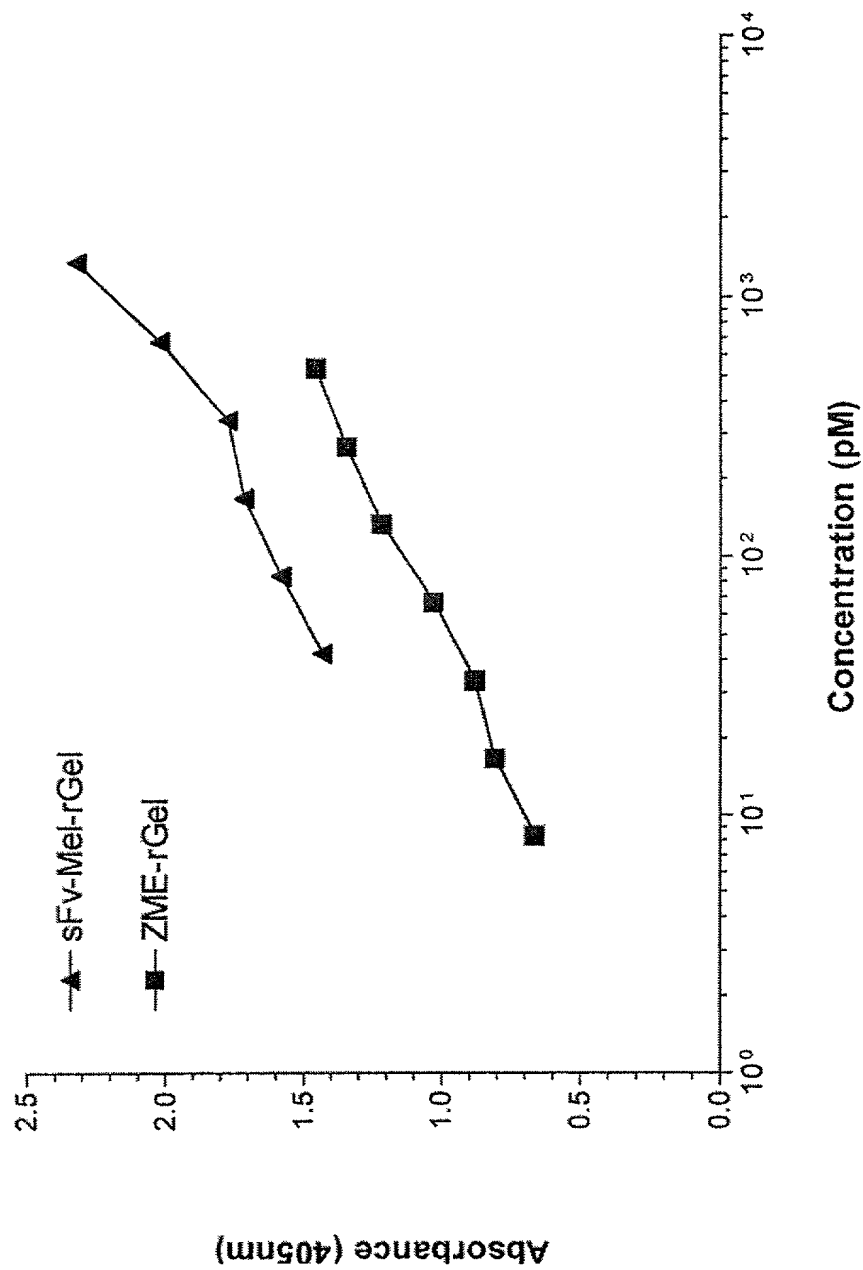


FIG. 6

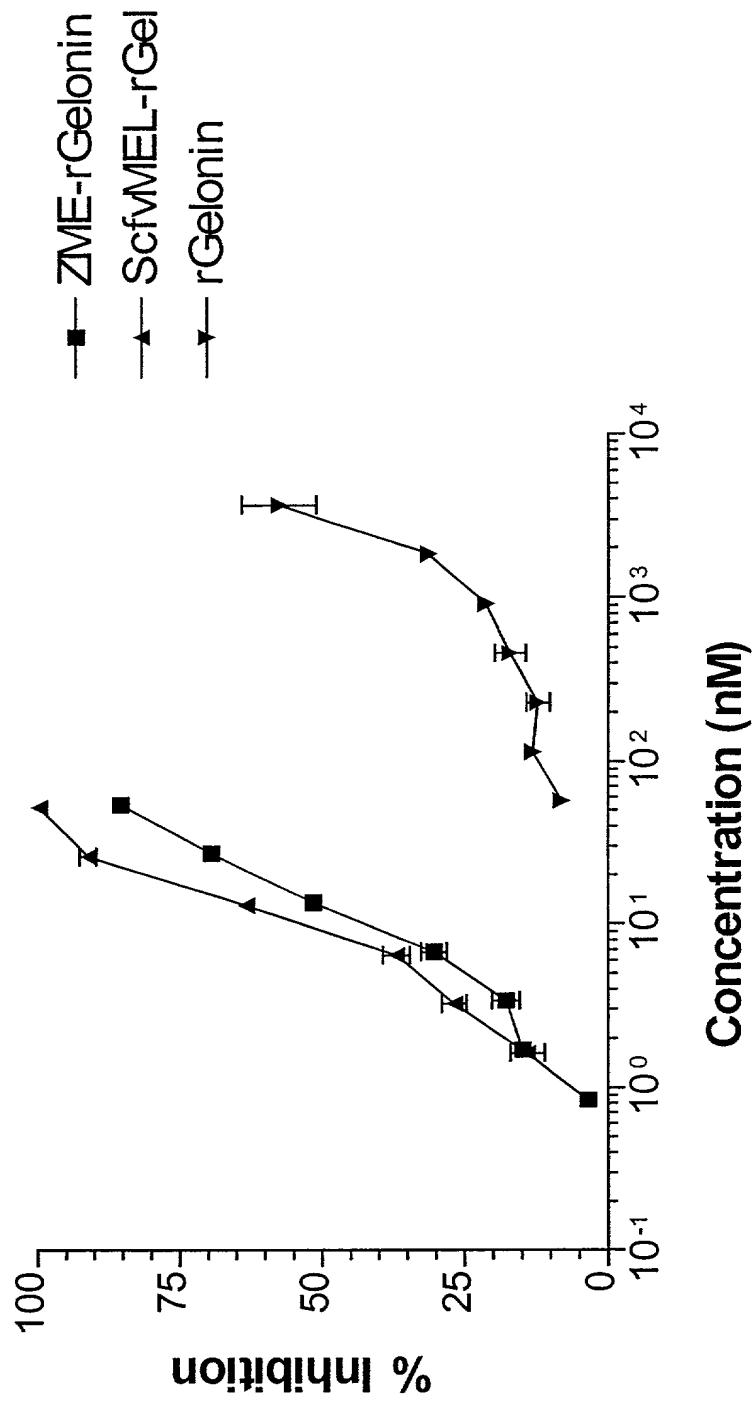


FIG. 7

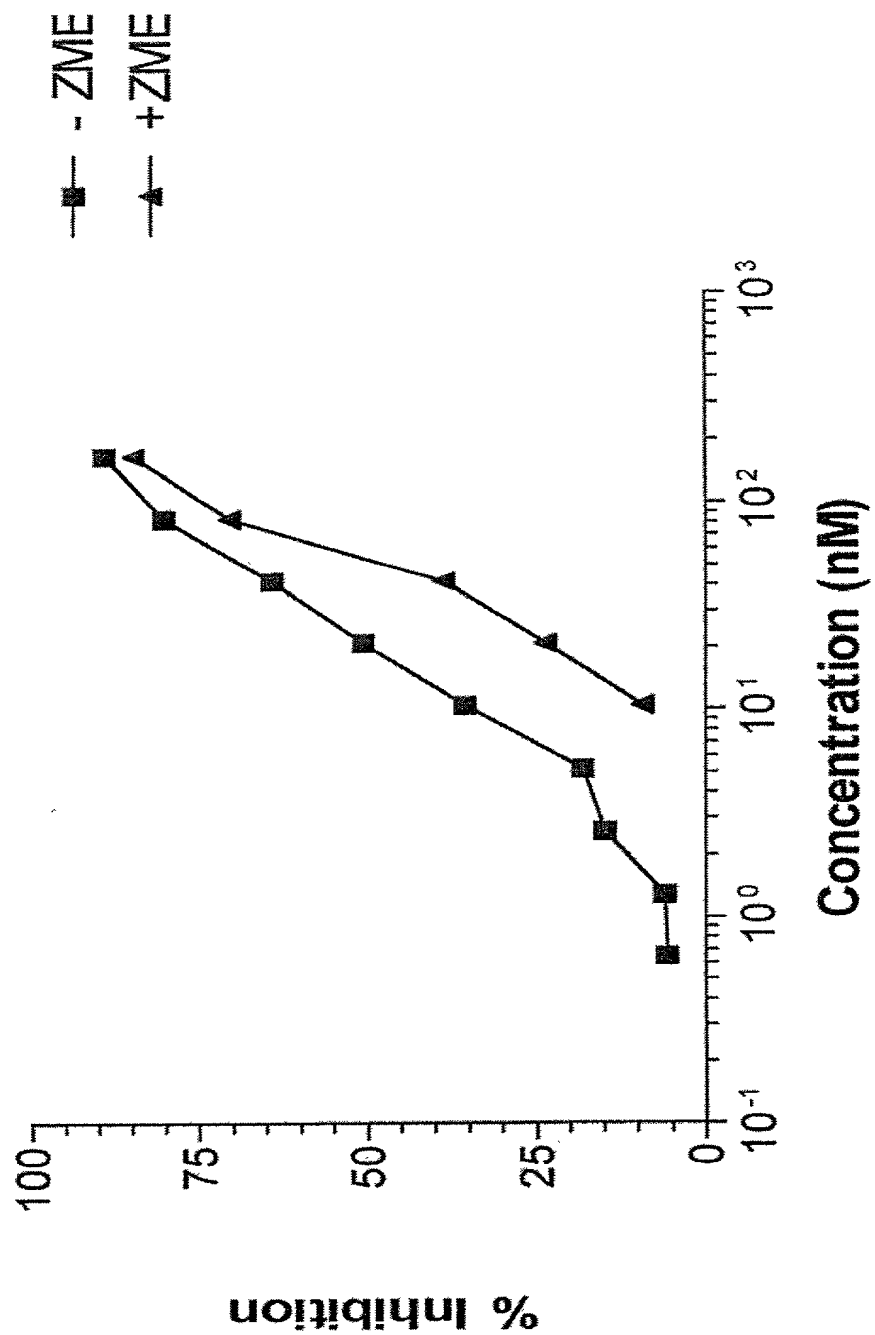


FIG. 8

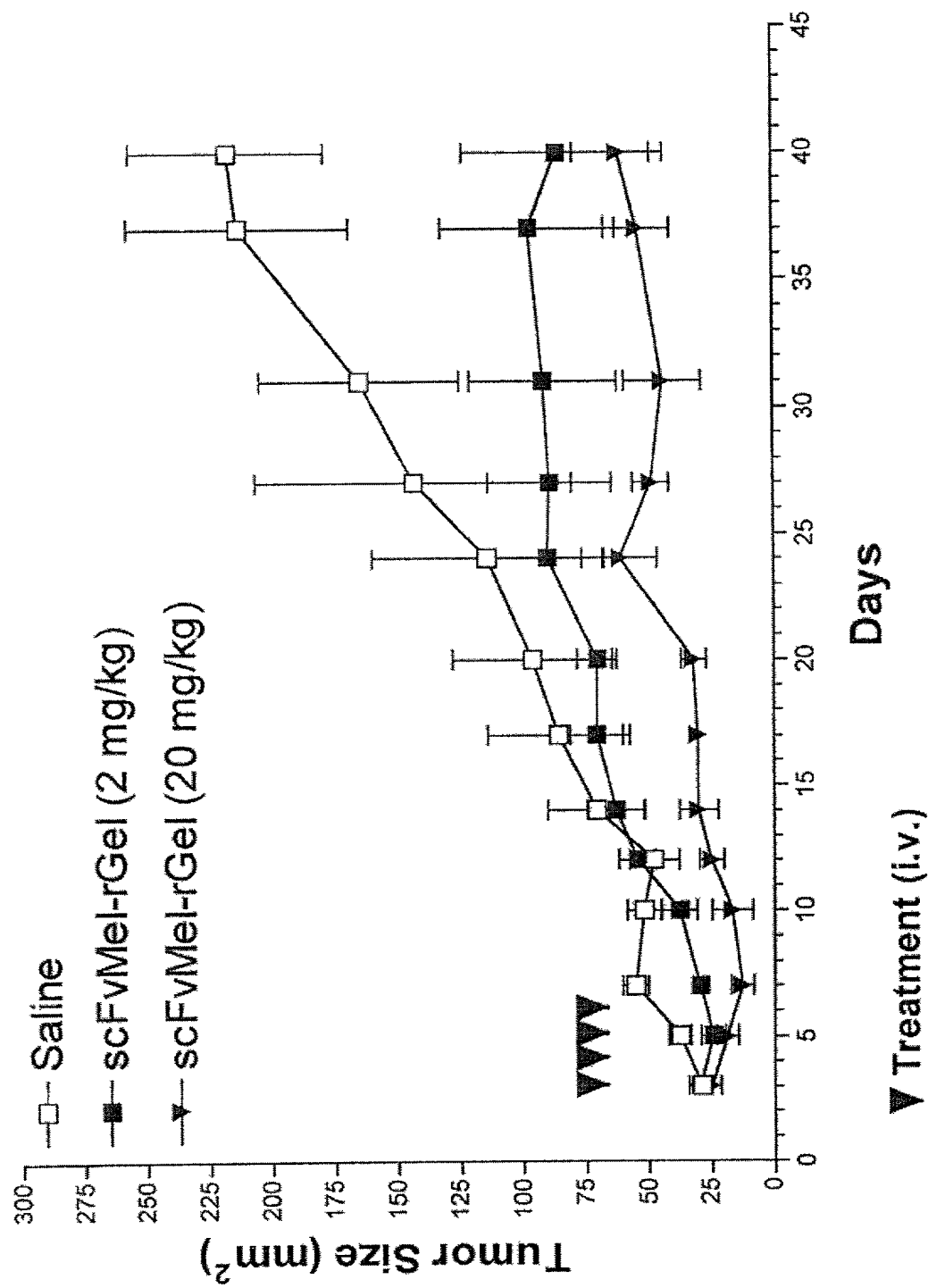


FIG. 9

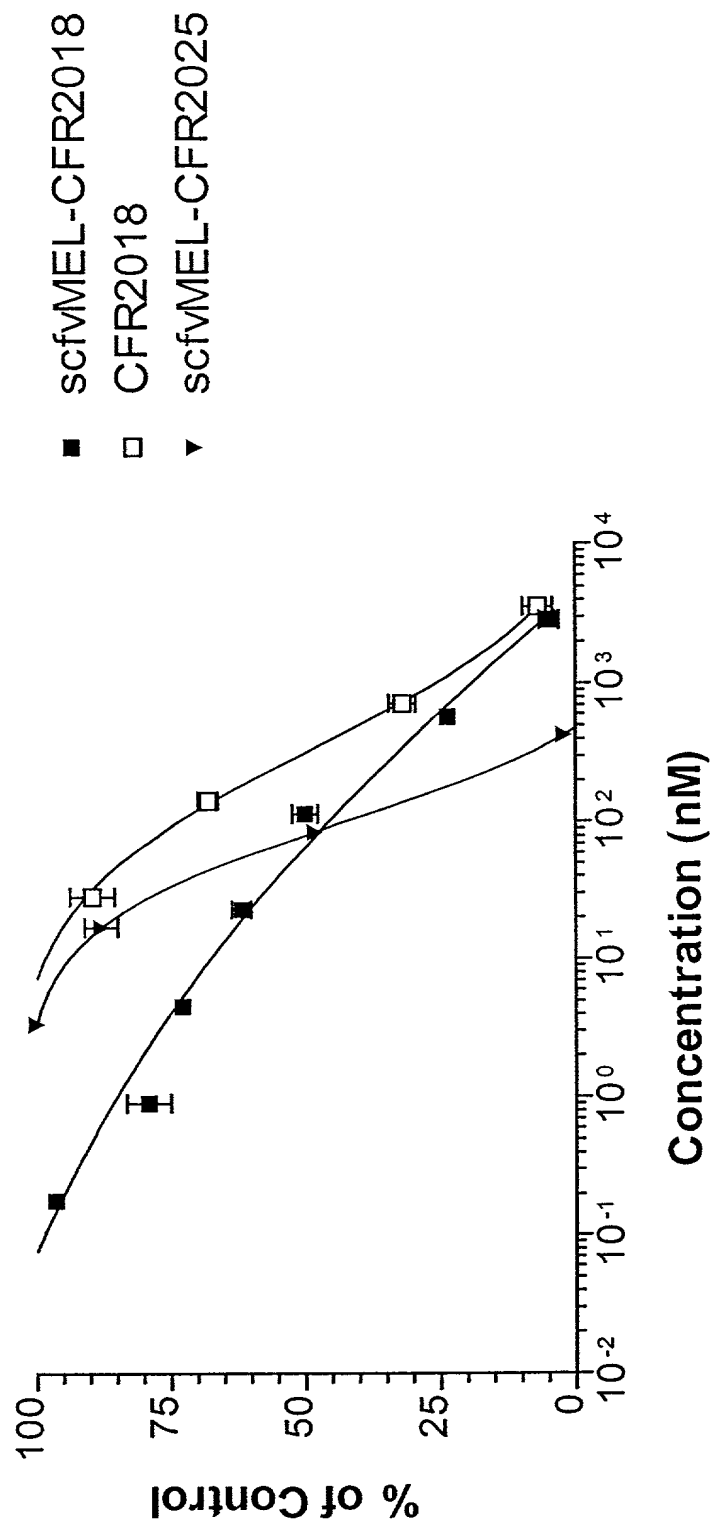


FIG. 10